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Serial No. Not Assigned Docket No. 2818-101 Title: Integrated Digital Control System and M For Controlling Automotive Electric Device Inventor: KIM

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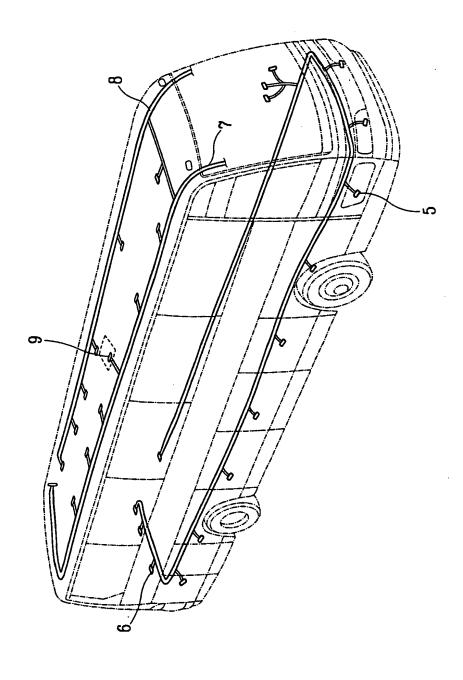
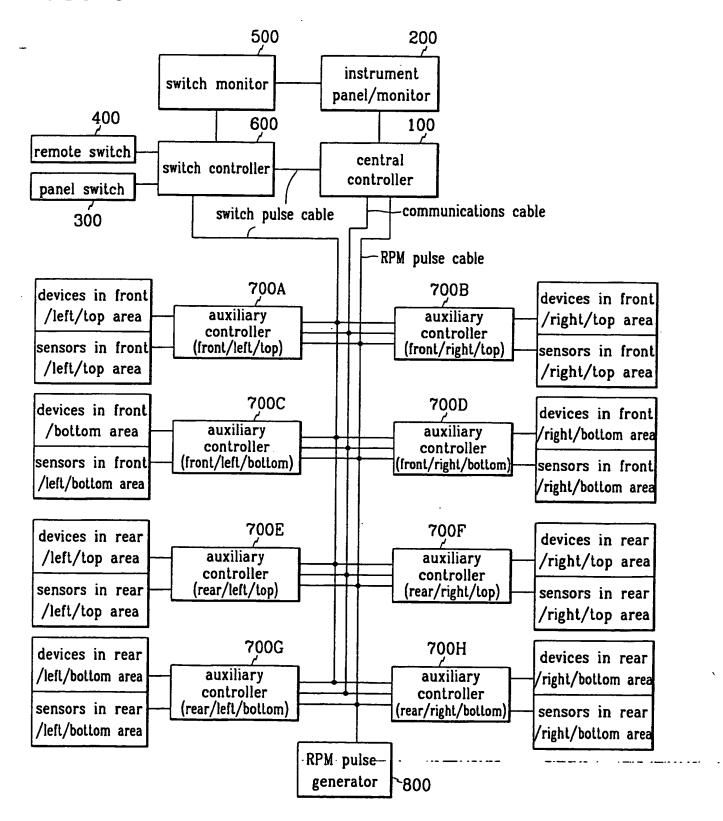
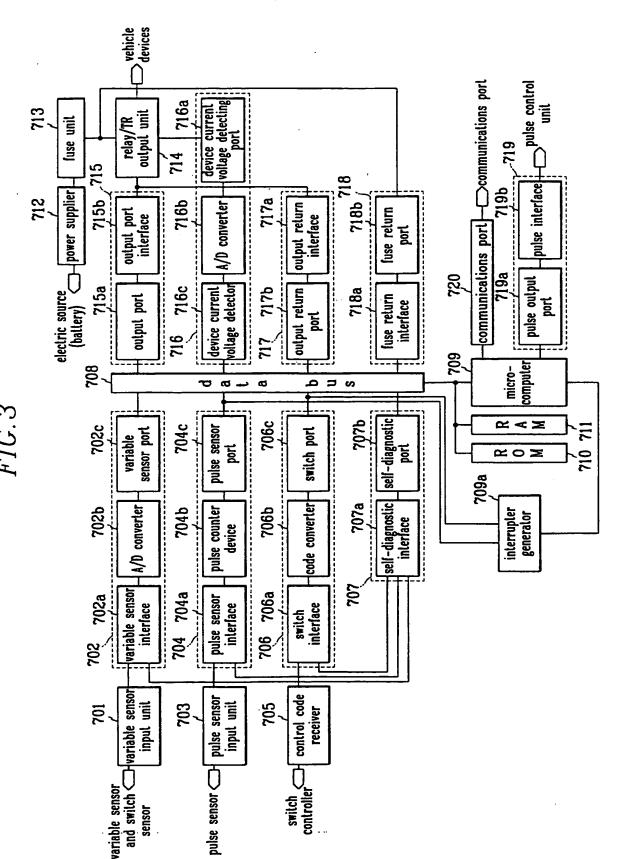




FIG.2

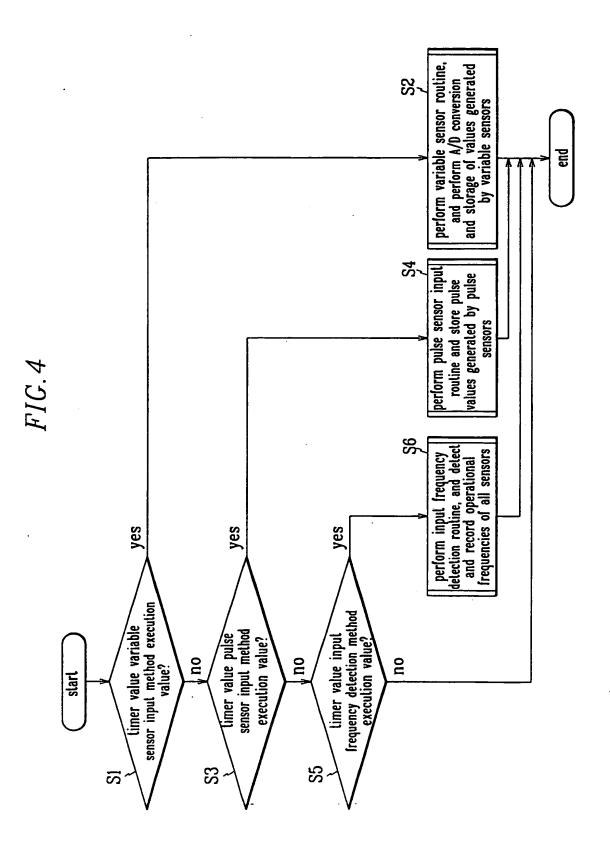


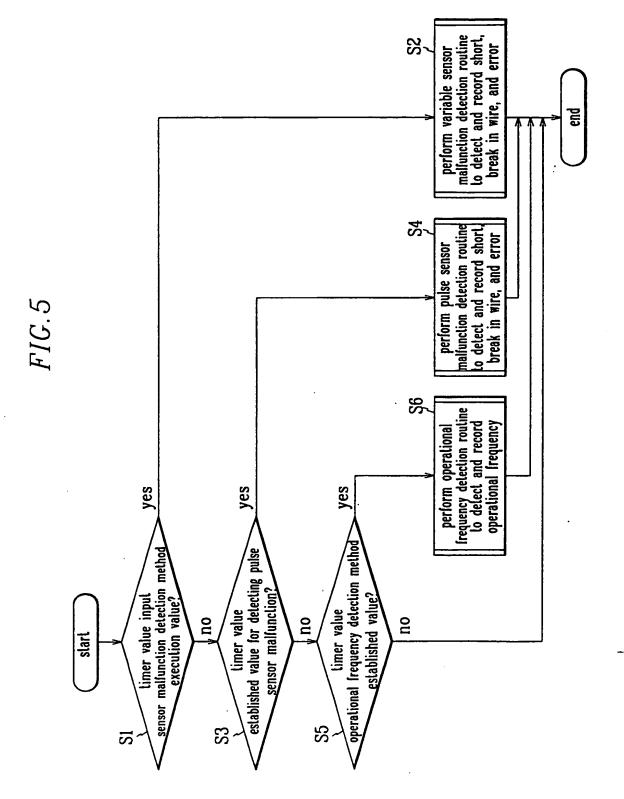


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FIG. 6

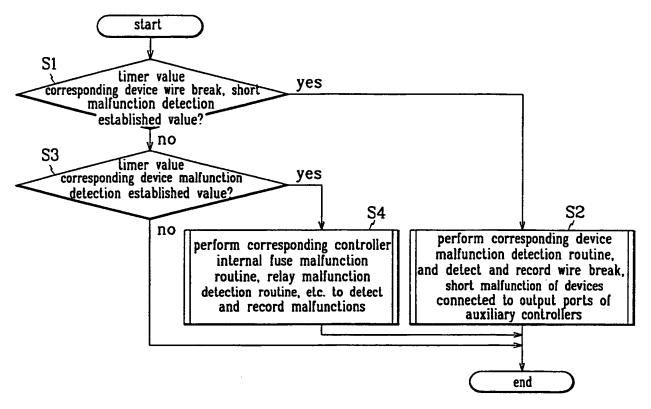
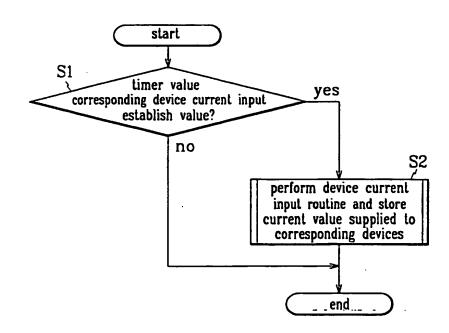


FIG. 7

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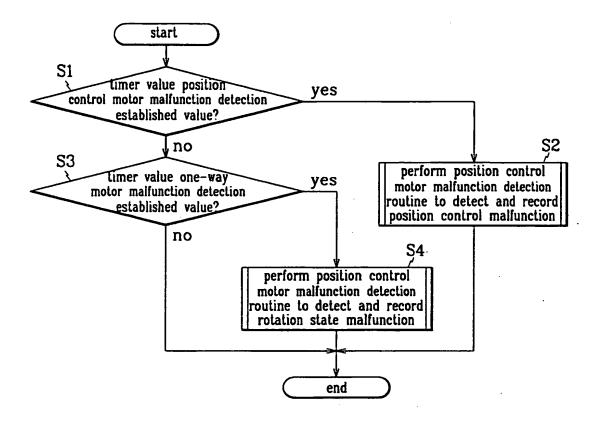
perform auxiliary controller state input routine and record each state end \$ perform relay state input routine and record relay operation state perform fuse port input routine and record fuse port state yes yes fuse state input execution controller state detection execution value? limer value auxiliary state input execution established value? established value? timer value relay limer value start

FIG. 9

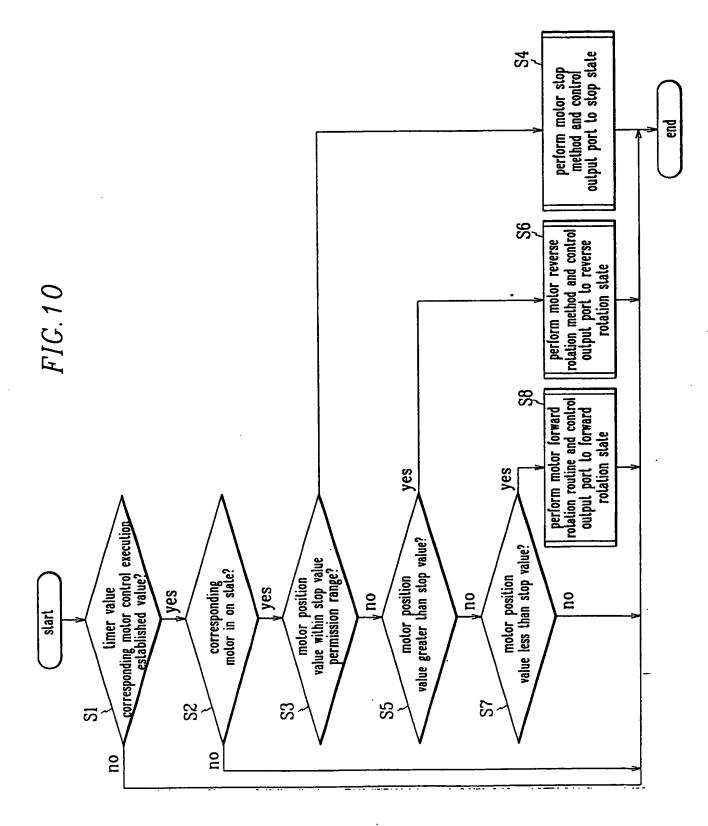
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FIG. 11

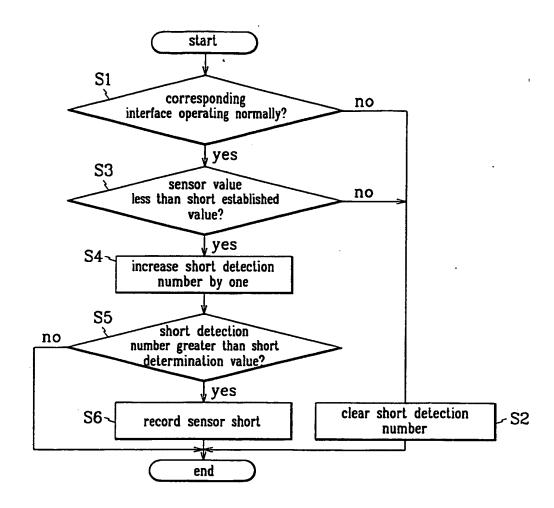


FIG. 12

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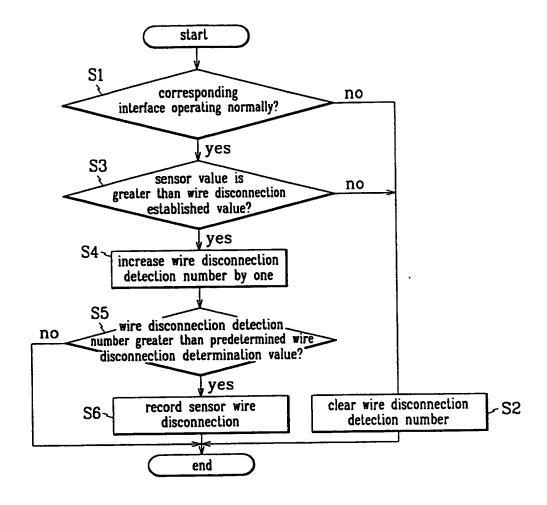


FIG. 13

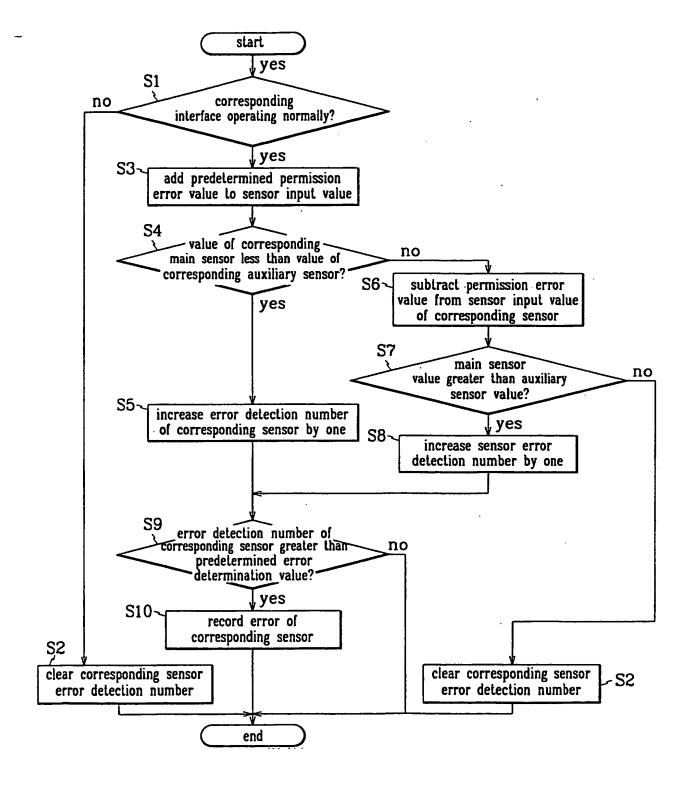
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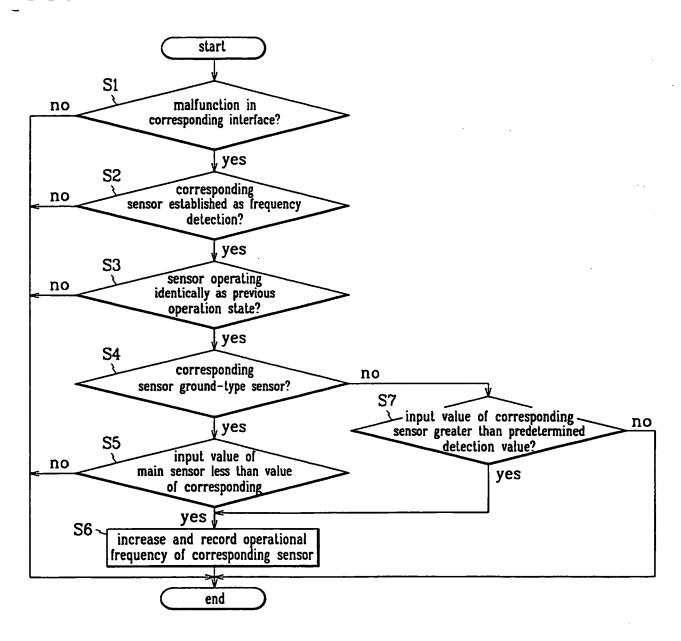
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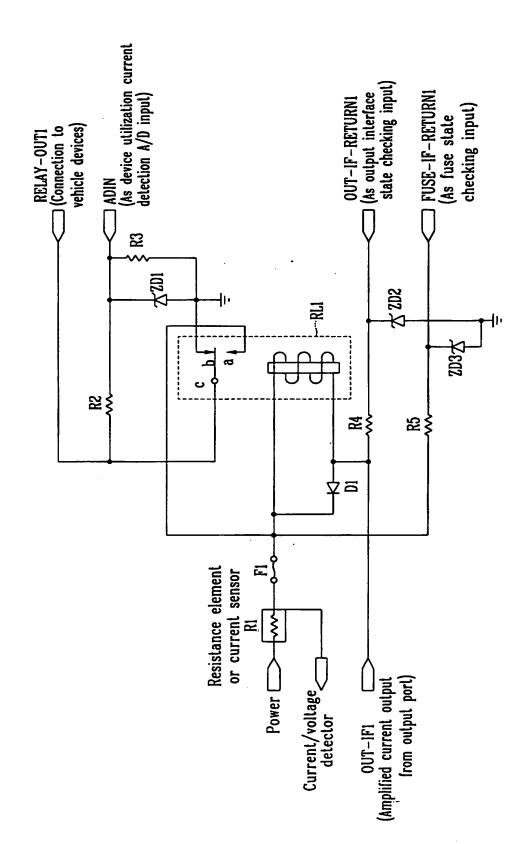


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FIG. 14





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FIG. 16

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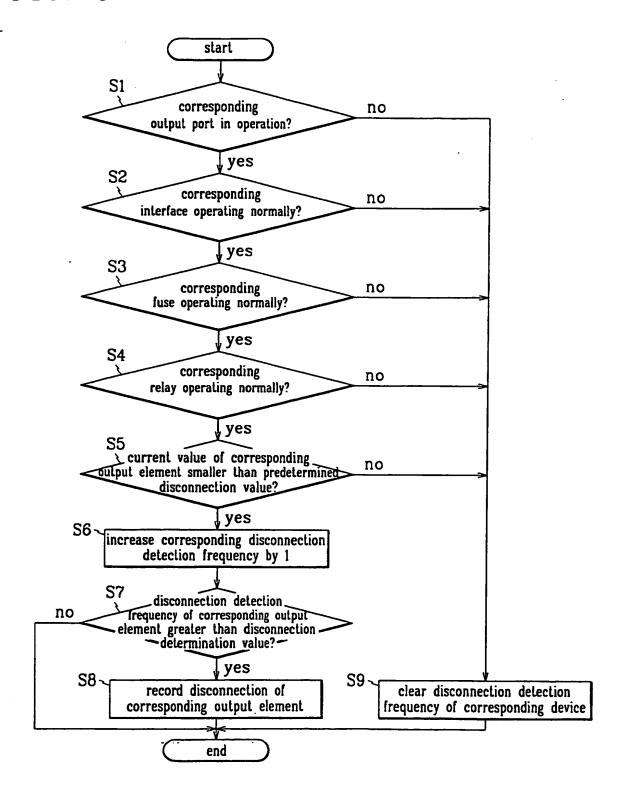
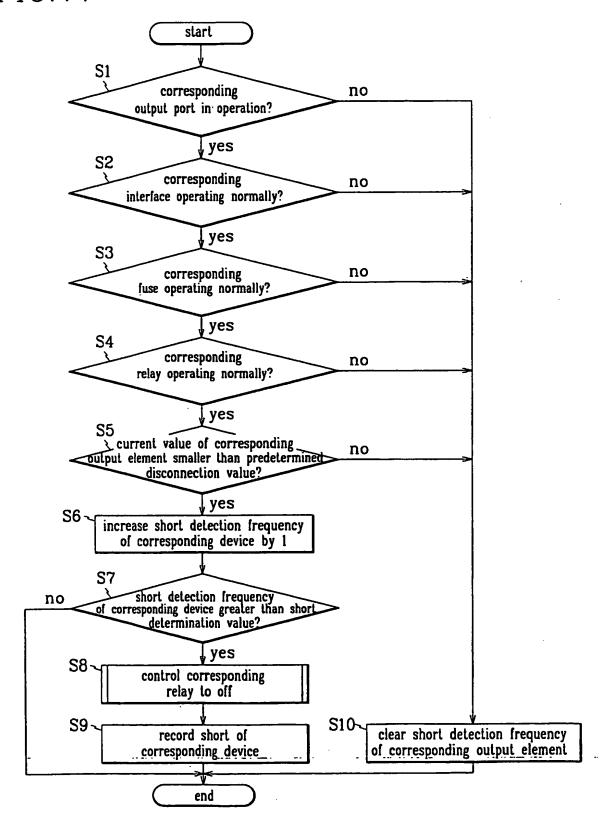


FIG. 17

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Disconnection determination

Normal operation determination

edetermined short value	Predetermined normal state value	Predetermined disconnection value
	Present value	

Present value	value Predetermined

Predetermined short value	Predetermined normal state value	Predetermined disconnection value
Present value		

Short determination

FIG. 19

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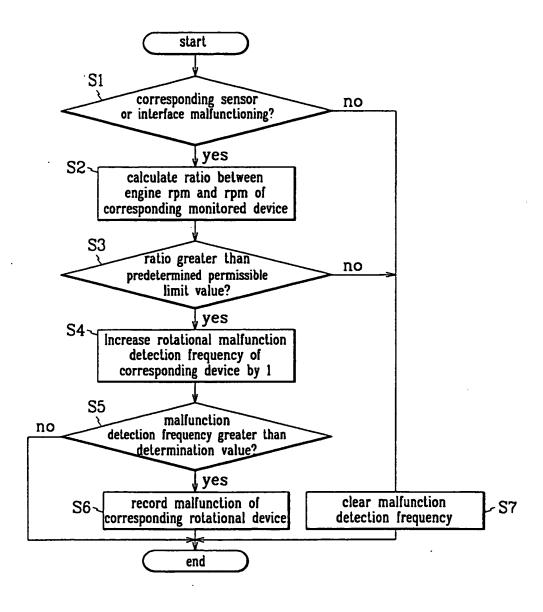
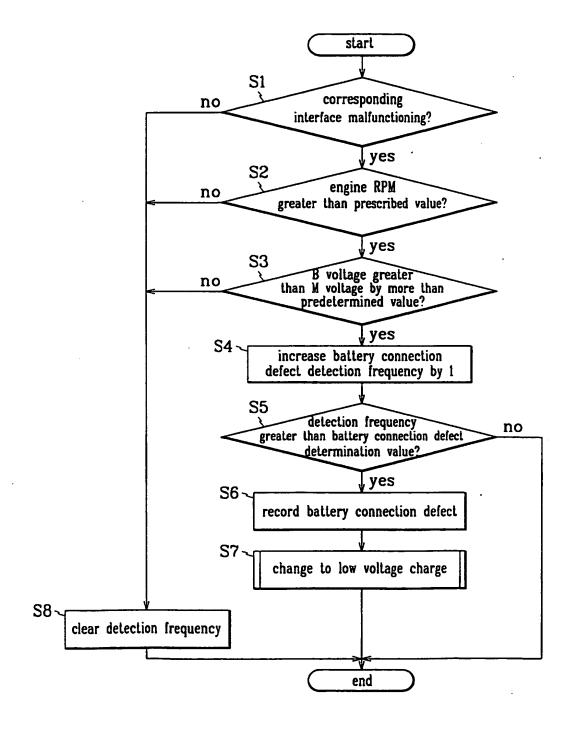


FIG. 20



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FIG. 21

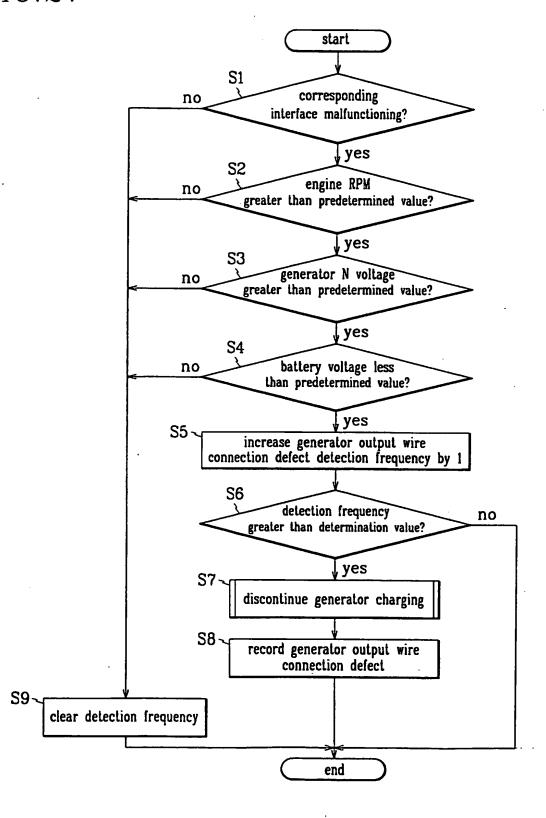


FIG. 22

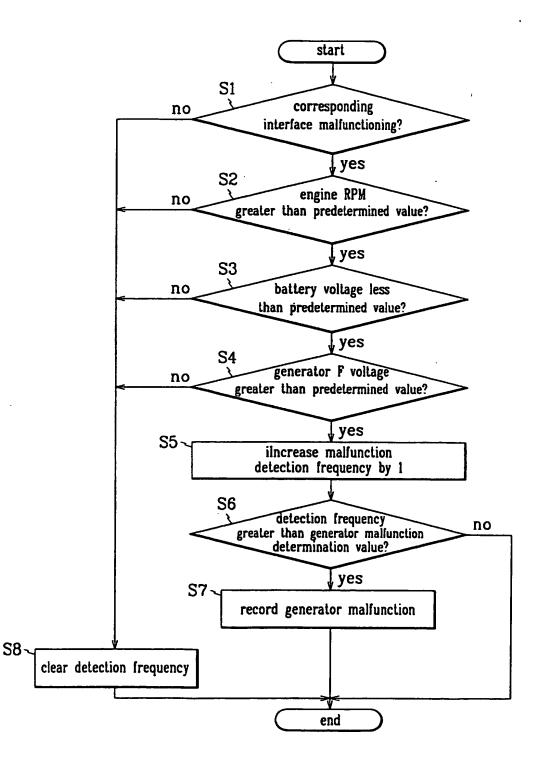
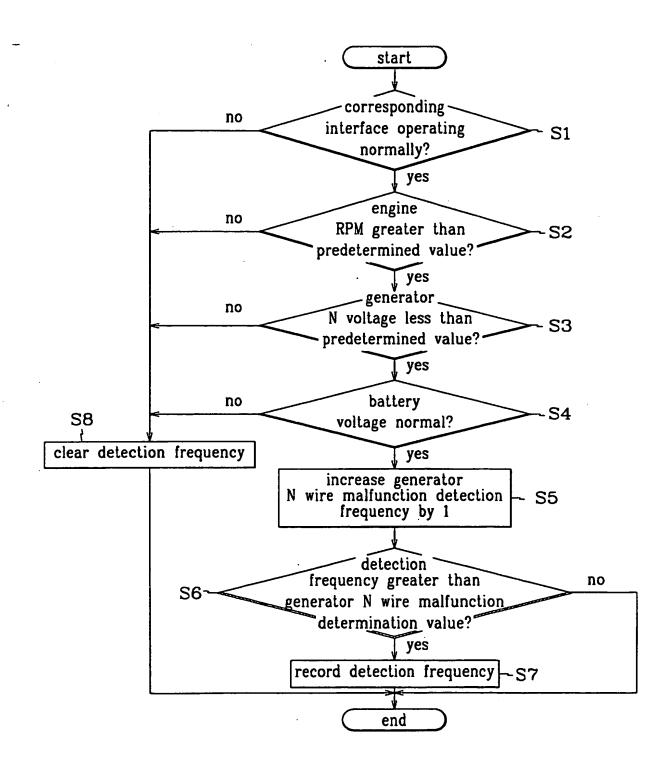


FIG. 23

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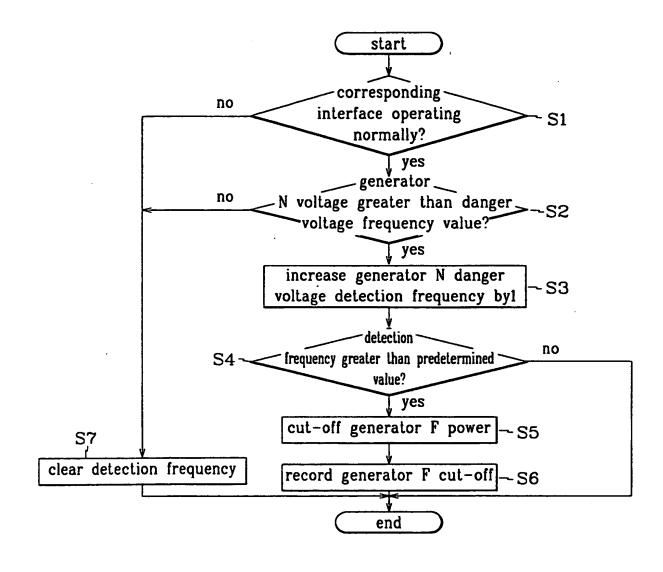


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FIG. 24

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FIG. 25

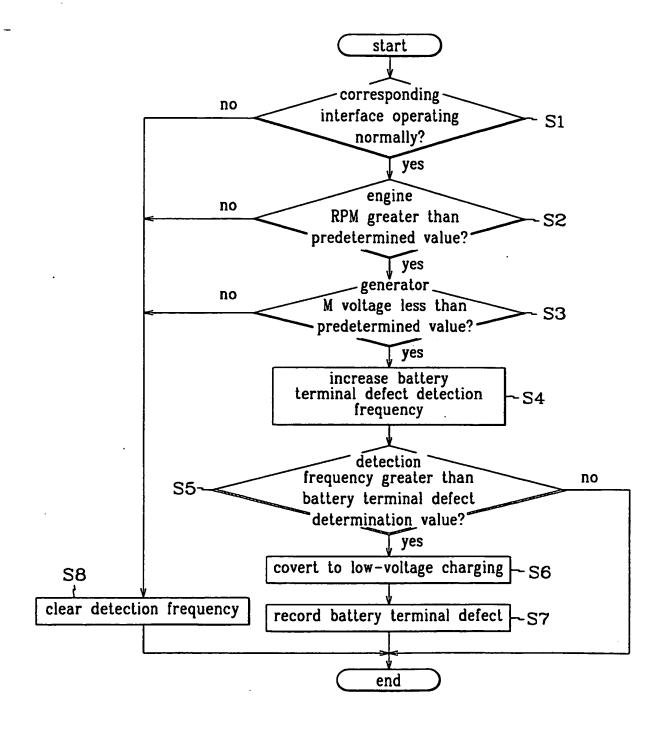
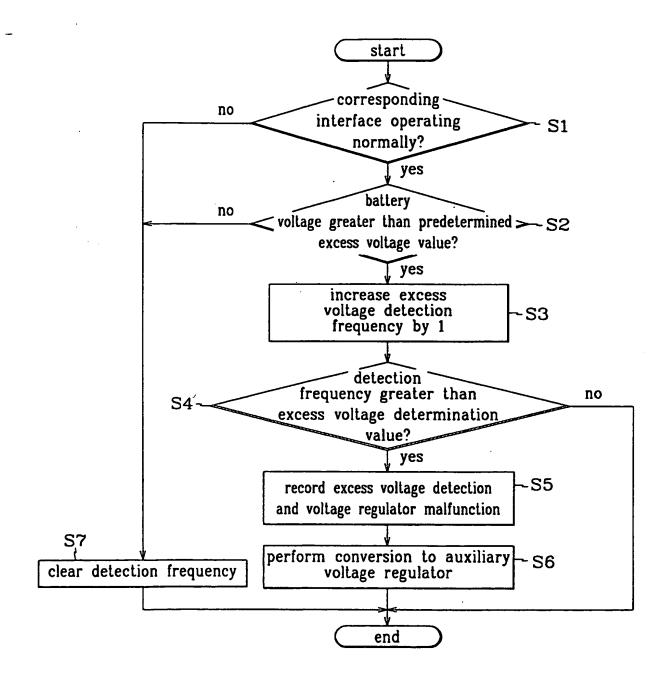


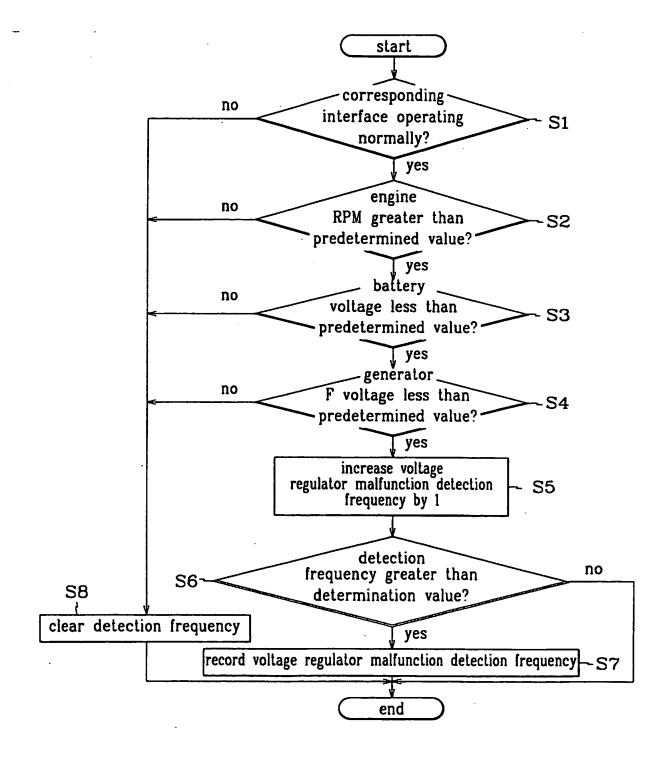
FIG.26



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FIG. 27

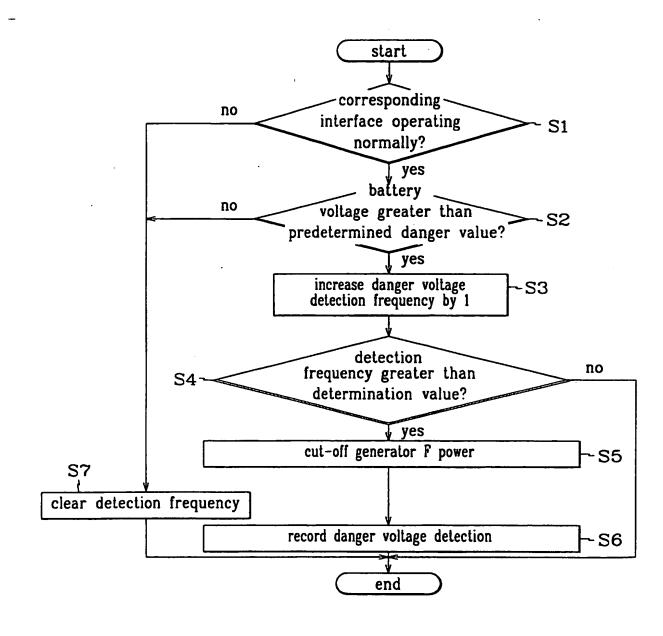
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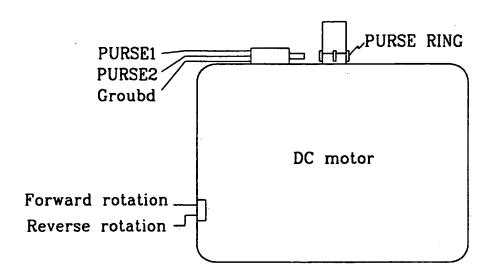
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FIG.28



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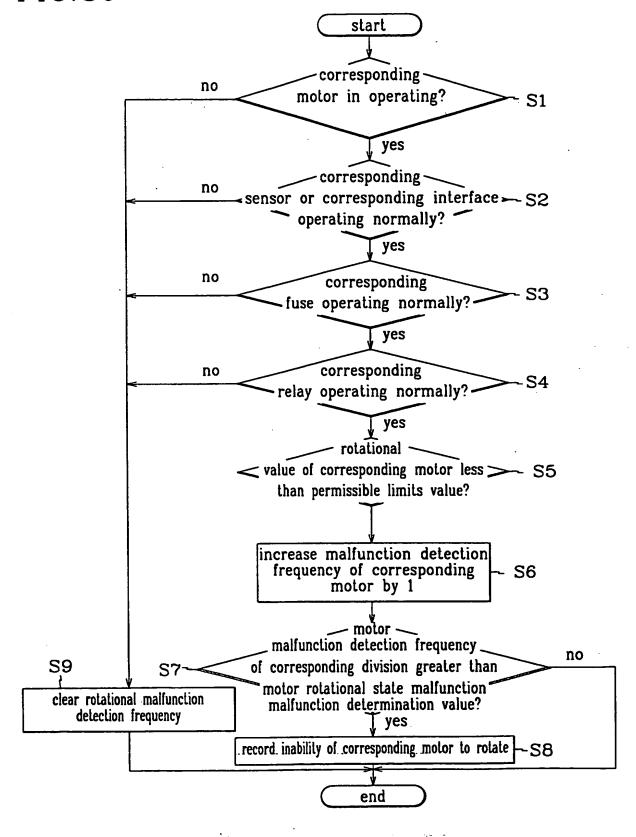
FIG.29



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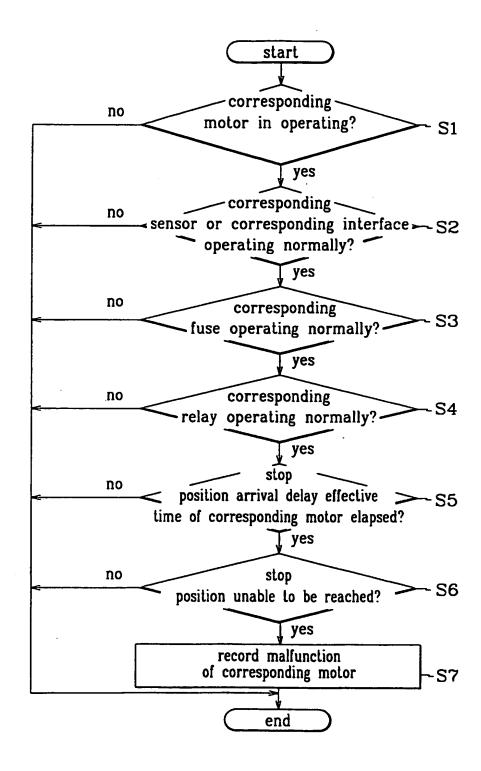
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FIG. 30



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FIG. 31



The state state and and that it is the state of the state state and the state and

FIG. 32

	S2-1 S2-2 external internal	\$\mathbb{X}\)-3	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	ध्र-7 ©	© 27-8	
S1_1	stair light			i	internal light1	S1_5
S1_2 •	driver compatment light	(conversion of monito	monitor r to internal switches since	i	nternal light2	S1_6 ©
S1_3 •	reading lamp(right)	internal switches have been called) internal light3 internal light4			nternal light3	S1_7
S1_4	reading lamp(lemp)				S1_8 ©	
	P_1	P_3	P_5 P_6 ©	P_7 ©	P_8	

FIG. 33

	P increase	
S2 reduction		S2 increase
	P reduction	

Check	Cancel

monitor output port

switch

K

port

memory unit

toggle state

chattering

removal unit

S2 swilch bullon

607

604

601

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FIG. 34

> switch monitor Switch Switch LED

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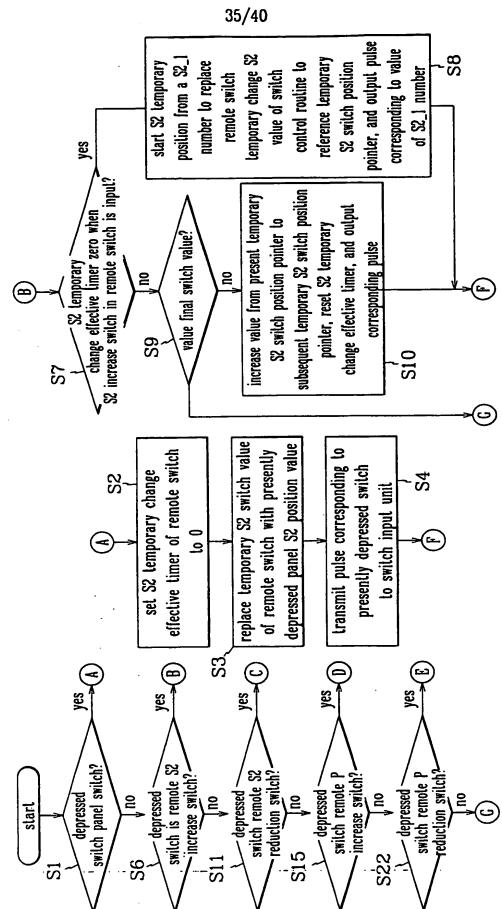
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602

33/40 communications communications cable switch LED switch cable communication 616 pulse output unit LED output port 620 main unit -617 Data base 0 E & 3 U L 0 619 ROMHRAM self-diagnosis port switch switch port 612 609 port \sim 618~ generator interrupt self-diagnosis toggle state interface unit memory unit toggle state memory unit 909 611 chattering chattering removal unit 603 removal unit SI switch button P switch button Remote switch

A PAR

PCT/KR00/00690 34/40 oulput port established corresponding rouline is routine connected switch, and if there in corresponding SI and control to off **S4** reference present switch table S2 internally, stop position pointer no corresponding rouline output port established switch, and if there is routine connected in corresponding SI switch on pulse? and control to on reference present switch table S2 yes position pointer internally, call start S3 . SS S7 off output ports and routines on output ports and routines S2 switch, and control to S2 switch, and control to reference mode of present connected to presently input P switch reference mode of presen pulse to be separated connected to P swilch pulse, and record S2 Decode corresponding pulse and P switch into S2 switch position S6~ no S8~ reference all S2 swilches, and **S10** control to off output ports and routines connected panel P switch off pulse? yes to P switch yes yes yes S11-S **S12 S**5 S corresponding to S2 switch input of panel switch? switch inpul of panel switch? corresponding to SI switch corresponding to switch input of remote switch? input to switch input uni corresponding to P ou no no no input? start <u>88</u> corresponding to presently table S2 position pointer designate new switch to depressed S2 switch . S₁3 yes



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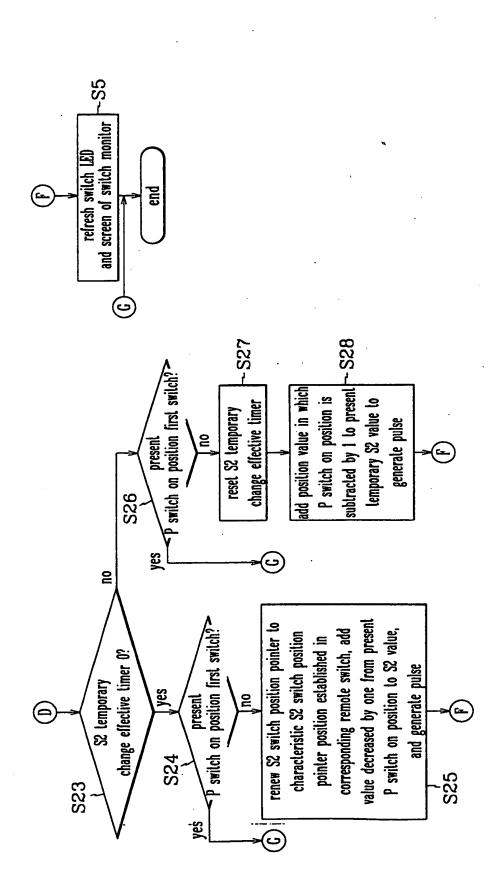


FIG. 37

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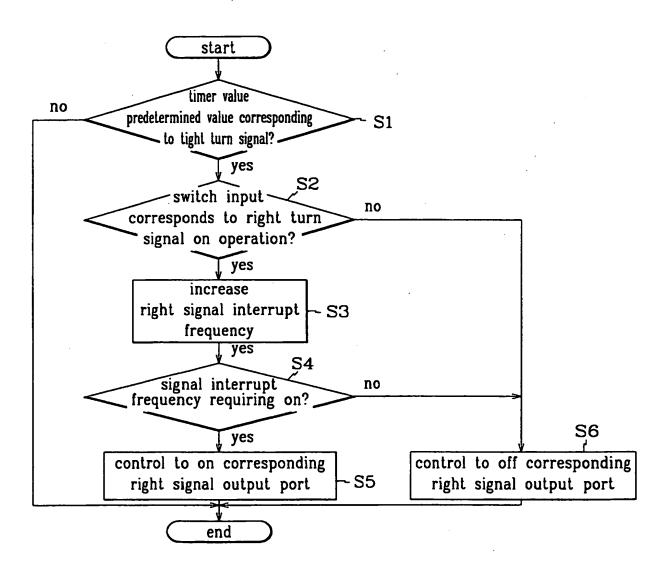


FIG. 38

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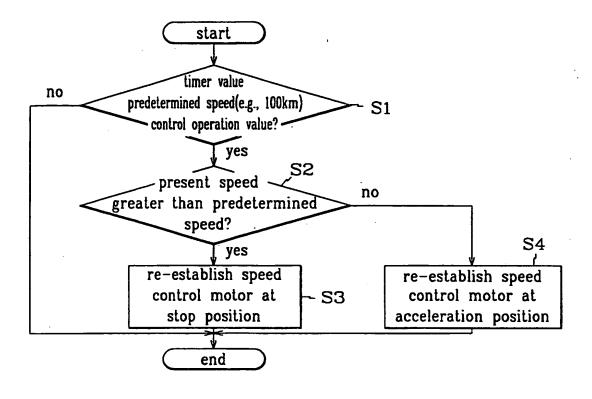




FIG. 39

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